

Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: December 19, 2005				ATTY DOCKET NO. 2003_1117		SERIAL NO. 10/635,468	
				APPLICANT Mitsuaki OSHIMA et al.			
				FILING DATE August 7, 2003		GROUP 2631	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/DH/	AA	4,597,090	6-24-86	Forney, Jr.			
/DH/	AB	4,077,021	2-28-78	Csajka et al.			
/DH/	AC	2005/0084750	4-24-05	Wang et al.			
/DH/	AD	2005/0050633	3-17-05	Epstein et al.			
/DH/	AE	2005/0022922					
/DH/	AF	4,918,437	4-17-90	Jasinski et al.			
/DH/	AG	5,023,889	6-11-91	Divsalar et al.			
/DH/	AH	5,063,452	11-5-91	Higurashi			
/DH/	AI	5,124,852	6-23-92	Suwa et al.			
/DH/	AJ	5,136,380	8-4-92	Cho			
/DH/	AK	5,146,335	9-8-92	Kim et al.			
/DH/	AL	5,148,422	9-15-92	Sako et al.			
/DH/	AM	5,218,436	6-8-93	Sugiyama et al.			
FOREIGN PATENT DOCUMENTS							
/DH/		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
/DH/	AN	2627574	7-21-04	CN			
/DH/	AO	1529838	5-11-05	EP			abstract
/DH/	AP	1499725	5-26-04	CN			only abstract
/DH/	AQ	2004-159207	6-3-04	JP			corresponds to AP
/DH/	AR	1528854	5-11-05	EP			only abstract
/DH/	AS	52118	12-16-02	UA			only abstract
/DH/	AT	1569334	1-26-05	CN			x
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		AU					
EXAMINER				/Dac Ha/		DATE CONSIDERED 03/08/2007	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

Sheet 1 of 1								INFORMATION DISCLOSURE STATEMENT			
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: June 22, 2006					ATTY DOCKET NO. 2003_1117		SERIAL NO. 10/635,468				
					APPLICANT Mitsuaki OSHIMA et al.		GROUP 2634				
					FILING DATE August 7, 2003						
U.S. PATENT DOCUMENTS											
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		SUBCLASS	FILING DATE IF APPROPRIATE				
DH	AA	4,267,592	5-12-81	Craiglow	_____	_____	_____				
	AB	4,601,045	7-15-86	Lubarsky	_____	_____	_____				
	AC	4,912,706	3-27-90	Eisenberg et al.	_____	_____	_____				
	AD	4,914,655	4-3-90	Johannes et al.	_____	_____	_____				
	AE	5,018,198	5-21-91	Takahashi	_____	_____	_____				
	AF	4,003,002	1-11-77	Snijders et al.	_____	_____	_____				
DH	AG	4,053,713	10-11-77	Nitadori	_____	_____	_____				
	AH										
	AI										
FOREIGN PATENT DOCUMENTS											
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO				
	AJ										
	AK										
	AL										
	AM										
	AN										
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)											
	AO										
	AP										
	AQ										
EXAMINER				DATE CONSIDERED							

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

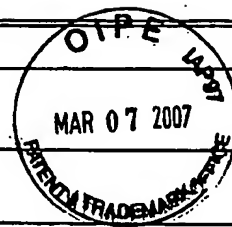
Date Submitted to PTO: March 7, 2007

ATTY DOCKET NO.
2003_1117SERIAL NO.
10/635,468APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
August 7, 2003

GROUP

2634

2611



U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/DH/	AA	5,210,770	5-11-93	Rice			
/DH/	AB	5,519,730	5-21-96	Jasper et al.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
/DH/	AJ	3-13145	1-22-91	Japan			abstract
/DH/	AK	4-322592	11-12-92	Japan			abstract
/DH/	AL	63-253738	10-20-88	Japan			abstract
/DH/	AM	62-502932	11-19-87	Japan			abstract
/DH/	AN	58-107740	6-27-83	Japan			abstract

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	
	AP	
	AQ	

EXAMINER

/Dac Ha/

DATE CONSIDERED

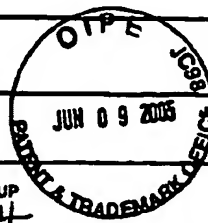
03/19/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: June 9, 2005

ATTY DOCKET NO.
2003_1117SERIAL NO.
10/635,468APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
August 7, 2003GROUP
2631

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	5,083,445	11-5-91	Nishizawa et al.	_____	_____	_____
	AB	5,819,000	10-6-98	Oshima	_____	_____	_____
	AC	5,999,569	12-7-99	Oshima	_____	_____	_____
DH	AD	5,892,879	4-6-99	Oshima	_____	_____	_____

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DH	AE	7-99522	4-11-95	Japan	_____	_____	abstract
	AF	7-79415	3-20-95	Japan	_____	_____	abstract
	AG	5-75568	3-26-83	Japan	_____	_____	abstract
	AH	86/07223	12-4-86	WO	_____	_____	X
	AI	2 187 611	9-9-87	Great Britain	_____	_____	X
	AJ	85/04541	10-10-85	WO	_____	_____	X
	AK	4-196822	7-16-92	Japan	_____	_____	abstract
	AL	2-166979	6-27-90	Japan	_____	_____	abstract
	AM	64-74836	3-20-89	Japan	_____	_____	abstract
DH	AN	63-108215	9-20-78	Japan	_____	_____	abstract

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

DH	AO	Martin Vetterli et al., Multiresolution Coding Techniques for Digital Television: A Review, Multidimensional Systems and Signal Processing, Volume 3, May 1992, Pages 161-187.
DH	AP	Ezio Biglieri et al., Introduction to Trellis-Coded Modulation with Applications, April 6, 1992, Pages 173-207.
DH	AQ	English Language Abstract of European Patent No. 93 30 7575 <i>in like</i>

EXAMINER

DATE CONSIDERED

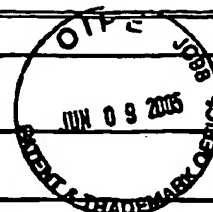
12/19/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: June 9, 2005

ATTY DOCKET NO.
2003_1117SERIAL NO.
10/635,468APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
August 7, 2003GROUP
26314

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DL	AA	4,227,152	10-7-80	Godard et al.	—	—	—
	AB	4,525,846	6-25-85	Bremer et al.	—	—	—
	AC	4,751,478	6-14-88	Yoshida	—	—	—
	AD	4,891,806	1-2-90	Farias et al.	—	—	—
	AE	4,903,125	2-20-90	Parker	—	—	—
	AF	4,937,844	6-26-90	Kao	—	—	—
	AG	5,164,963	11-17-92	Lawrence et al.	—	—	—
	AH	5,555,275	9-1996	Oshima	—	—	—
DL	AI	5,565,926	10-15-96	Bryan et al.	—	—	—

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
DL	AJ	311188	4-12-89	EP	—	—	X	
	AK	329158	8-23-89	EP	—	—	X	
	AL	64-5135	1-10-89	JP	—	—	X	
	AM	63-28145	2-5-88	JP	—	—	X	
DL	AN	62-133842	6-17-87	JP	—	—	X	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

DL	AO	Tricia Hill et al., "A Performance Study of NLG 64-State QAM", IEEE Transactions on Communications, vol. COM-31, June 1983, no. 6, pages 821-826.
DL	AP	Hideki Ishio et al., "A Proposal of a Carrier Digital Transmission System Using Multi-Level APSK", pages 1-20. ~ 24p
DL	AQ	Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.

EXAMINER

DATE CONSIDERED

12/19/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.